

ABSTRACT OF THE DISCLOSURE

5 A method of registering an IP (Internet
Protocol) terminal device including a function to
transmit and receive IP packets, to a line-switching
exchanger including a database that is used for
managing a type and a telephone number of a
telephone set is provided. The method includes the
steps of connecting the line-switching exchanger and
a network-gateway device by use of a radio-base-
10 station-connection line that is used for connecting
radio base stations, connecting the network-gateway
device and the IP terminal device through an IP
network, and registering the IP terminal device as a
radiotelephony device in the database. By
15 registering the IP terminal device as a
radiotelephony device in the database provided in
the line-switching exchanger, the IP terminal device
can receive a variety of supplementary services
provided by the line-switching exchanger since the
20 IP terminal device is defined as a radiotelephony
device, for example, a PHS phone, by the line-
switching exchanger. Additionally, data for each of
IP terminal devices on an IP network stored in the
database of the line-switching exchanger does not
25 need to be updated when the IP terminal device is
moved from one location to another location on the
IP network since location information of the IP
terminal device is initially registered in the
database of the line-switching exchanger based on
30 location-registration information of the IP terminal
device.

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